

1    **What is claimed is:**

2    1.    A reversible ratcheting wrench comprising:

3               a handle including a head, the head including a hole delimited by an  
4               inner periphery, a compartment being defined in the inner periphery  
5               delimiting the hole and communicated with the hole;

6               a drive member rotatably received in the hole of the head, a  
7               plurality of teeth being provided on an outer periphery of the drive member  
8               and having a radius of curvature; and

9               a pawl received in the compartment of the handle, the pawl being  
10              slidable between a first ratcheting position corresponding to a first  
11              ratcheting direction of the wrench and a second ratcheting position  
12              corresponding to a second ratcheting position of the wrench that is opposite  
13              to the first ratcheting direction, the pawl including a plurality of teeth on a  
14              toothed side thereof, the teeth of the pawl having a radius of curvature larger  
15              than that of the teeth of the drive member;

16              wherein when the pawl is in the first ratcheting position, a portion  
17              of the teeth of the pawl engages with the teeth of the drive member while  
18              another portion of the teeth of the pawl disengages from the teeth of the  
19              drive member, leaving a gap between said another portion of the pawl and  
20              the teeth of the drive member; and

21              wherein when the pawl is in the second ratcheting position, said  
22              another portion of the teeth of the pawl engages with the teeth of the drive  
23              member while the portion of the teeth of the pawl disengages from the teeth  
24              of the drive member, leaving a gap between the portion of the pawl and the  
25              teeth of the drive member.

- 1    2.    The reversible ratcheting wrench as claimed in claim 1, wherein an annular  
2        groove is defined in the inner periphery delimiting the hole of the handle, the  
3        outer periphery of the drive member having an annular groove defined  
4        therein, further including a retainer partially received in the annular groove of  
5        the handle and partially received in the annular groove of the drive member,  
6        thereby rotatably mounting the drive member in the hole of the handle.
- 7    3.    The reversible ratcheting wrench as claimed in claim 1, wherein the pawl  
8        includes two abutting faces selectively abutting against an associated one of  
9        two wall portions delimiting the compartment of the handle.
- 10   4.    The reversible ratcheting wrench as claimed in claim 1, further including a  
11       switching means for moving the pawl between the first ratcheting position  
12       and the second ratcheting position.
- 13   5.    The reversible ratcheting wrench as claimed in claim 4, wherein the  
14       switching means includes a body rotatably received in the handle and a turn  
15       piece formed on an end of the body and outside the handle for manual  
16       operation, the body including a receptacle, the switching means further  
17       including an elastic element and a pressing member, the elastic element  
18       having a first end received in the receptacle of the body and a second end for  
19       biasing the pressing member against the pawl, the pawl being moved  
20       between the first ratcheting position and the second ratcheting position when  
21       the turn piece is manually turned.
- 22   6.    The reversible ratcheting wrench as claimed in claim 5, wherein the pawl  
23       includes another side opposite to the toothed side, said another side of the  
24       pawl including a recess for receiving an end of the pressing member.

- 1    7.    The reversible ratcheting wrench as claimed in claim 5, wherein the pressing  
2           member includes a receptacle for receiving the second end of the elastic  
3           element.
- 4    8.    The reversible ratcheting wrench as claimed in claim 5, wherein the handle  
5           includes a mounting hole communicated with the compartment, and wherein  
6           the body is rotatably mounted in the mounting hole of the handle.